

TITLE 326 AIR POLLUTION CONTROL BOARD

IDEM'S SUGGESTED AMENDMENT LANGUAGE TO PROPOSED RULE: SINTER PLANTS, 326 IAC 8-13 LSA Document #97-359

Revisions made by LSA under the Administrative Rule Drafting Manual (IC 4-22-8-4(a)(2) and incorporated into the printed version (LSA Document #97-359) have been made in the version of this rule presented to the board for final adoption.

326 IAC 8-13-2 Definitions

- 326 IAC 8-13-2(3)** In the definition of “equivalent method” following “to have a consistent and quantitatively known relationship to the reference method, under specified conditions” **insert** “, for example, approved composite oil and grease samples”
- 326 IAC 8-13-2(4)** In the definition of “exceedance” following “means the value of the” **delete** “control measure”.
Between “operating parameter” and “outside the stated boundaries” **insert** “or VOC emissions”.
- 326 IAC 8-13-2(6)** In the definition of “operating day” following “It is not necessary for the facility to operate continuously for the entire twenty-four (24) hour period.” **insert** “In the event sinter was not produced for twenty-four (24) consecutive hours, a fraction of an operating day is determined by dividing the actual hours of operation by twenty-four (24) hours.”
- 326 IAC 8-13-2(7)** **Add** a new definition of “operation hour” as follows: “Operating hour” means any sixty (60) minute period beginning at the start of an hour, for example 1:00 a.m., 2:00 a.m. through 12:00 a.m., during which sinter is produced.”
Renumber existing subdivision (7) to (8);
existing subdivision (8) to (9); and
existing subdivision (9) to (10).
- 326 IAC 8-13-2-(11)** **Add** a new definition of “sinter produced” as follows: “Sinter produced” means the total sinter produced less the sinter recycled to the sintering process measured at a consistent point in the process.
Renumber existing subdivision (10) to (12);
existing subdivision (11) to (13); and
existing subdivision (12) to (14).

326 IAC 8-13-3 Emission limit limits Delete “limit” and in its place insert “limits”.

326 IAC 8-13-3(b) Following (b) **delete** “From May 1 until September 30, sinter plant windbox exhaust gas VOC emissions shall not exceed the VOC emission limit calculated as follows:

VOC (lbs/day) = VOC emission rate (lbs/ton) x average daily sinter production rate (tons/day)

Where: VOC emission rate = 0.25 lbs/ton sinter produced.

Average daily sinter production rate equals either of the following:

(1) The annual average sinter production in tons divided by the average number of operating days in the period 1990 through 1994.

(2) An alternative production rate that is demonstrated to be more representative of the average daily sinter production than that calculated in subdivision (1). “ and

insert “This subsection establishes three (3) VOC emission limits for the period from May 1 through September 30 for sinter plant windbox exhaust gas VOC emissions: a seasonal cap, a maximum daily limit, and a lower daily limit for days on which an exceedance of the national ambient air quality standard for ozone is predicted to be likely. The emission limits are based on a VOC emission rate equal to 0.25 lb/ton sinter produced and a daily sinter production rate. The VOC emissions on any day are limited to an amount based on maximum actual daily sinter production. However, on a day, designated by the department as “a predicted ozone exceedance day” and upon notification from the department to the owners or operators, the VOC emissions shall be limited to an amount based on average daily sinter production. Sinter plant windbox exhaust gas VOC emissions shall not exceed the VOC emission limits calculated as follows:

(1) During the period May 1 through September 30, the total VOC emissions (the “seasonal cap”) shall not exceed the VOC emission limit calculated as follows:

VOC (lbs) = 0.25 lb/ton of sinter produced x average daily sinter production rate (tons/day) x 153 days

(2) Except as provided in subdivision (3), on any day from May 1 through September 30 the sinter plant windbox exhaust VOC emissions (the “maximum daily limit”) shall not exceed the VOC emission limit calculated as follows :

VOC (lbs/day) = 0.25 lb/ton of sinter produced x maximum actual daily sinter production rate (tons/day)

(3) On any day from May 1 through September 30 designated as “a predicted ozone exceedance day” and upon notification to the owner or operator by the department, the sinter plant windbox exhaust VOC emissions (the “lower daily limit”) shall not exceed

the VOC emission limit calculated as follows:

$$\text{VOC (lbs/day)} = 0.25 \text{ lb/ton of sinter produced} \times \text{average daily sinter production rate (tons/ day)}$$

Where: Sinter production rate shall be calculated as follows:

(A) Maximum actual daily sinter production equals the maximum actual sinter produced on an operating day during the period from 1990 to 1997.

(B) Average daily sinter production equals either of the following:

(i) The annual average sinter production in tons divided by the average number of operating days in the period 1990 through 1994.

(ii) In the event sinter production in 1990 through 1994 is not representative of the current sinter production due factors such as, but not limited to, routine repair, maintenance, or replacement, a source may elect to use the average actual sinter production in tons per day during a more recent calendar year up to the year 1997 which represents current sinter production. The averaging period must include and be not less than the ozone season (May 1 through September 30)."

326 IAC 8-13-3(c) Following "From October 1" **delete** "until" and **insert** in its place "through".

326 IAC 8-13-4 Compliance requirements

326 IAC 8-13-4(b)(1) Following "A report detailing how the limits in section 3(b) and 3(c) of this rule" **delete** " will" and **insert** "shall".

326 IAC 8-13-4(b)(1)(B) Between "The list" and "shall contain," **insert** "required by clause (A)".

Following "at a minimum, a" and before "measure" **insert** "control".

Delete "the" before "scale pits".

Following "scale pits" **delete** "at the hot strip mills for use at a sinter plant covered by this rule".

326 IAC 8-13-4(b)(1)(D) **Add** a new clause (D) as follows:

"(D) The calculated VOC emission rate in accordance with section 3(b) of this rule and the data used to estimate the same."

326 IAC 8-13-4(b)(2) Following "and the owner" **delete** "of" and **insert** "or".

326 IAC 8-13-4(b)(4) **Add** a new subdivision (4).

Change existing subdivision (4) to subsection (c).

Change existing subsection (c) to subsection (d).

Change existing subsection (d) to subsection (e).

Change existing subsection (e) to subsection (f).

Change existing subsection (f) to subsection (g).

Change existing subsection (G) to subsection (h).

New subdivision (4) reads as follows:

“(4) A statement of intent to use a VOC continuous emissions monitoring system (CEMS) according to section 8 of this rule, if applicable.”

326 IAC 8-13-4(b)(5) Add a new subdivision(5) as follows:

“(5) A corrective action plan that will be implemented in the event of an exceedance. The corrective action plan shall contain control measures such as, but not limited to, reducing sinter production, changing sinter burden characteristics, or modifying sintering process equipment operations.”

326 IAC 8-13-4(c) Delete “subdivision (1)” and **insert** in its place “subsection (b)(1)”.

326 IAC 8-13-4(d) In the first sentence **delete** “Within” and **insert** “No later than” before “sixty (60) days”.
Following “sixty (60) days” **delete** “of” and **insert** “after” in its place.
Following “the compliance dates in” **delete** “ section 3(b) and 3(c)” and **insert** “section 3”.
Following “ initial compliance with the emission limits in section 3” **insert** “of this rule”.
Add a new second sentence as follows: “Demonstration of compliance with the emission rates in section 3 may be performed during the same testing and compliance demonstration.”

326 IAC 8-13-4(d)(1) Following “Demonstrate compliance with the emission” **delete** “rate” and **insert** in its place “rates”.

326 IAC 8-13-4(d)(4)(E) Following “The operating parameter value that demonstrates compliance with the emission” **delete** “limit.” and **insert** in its place “limits and an explanation or basis if the operating parameter calculated according to Equation 4 in section 5(d)(10) of this rule is adjusted to correspond to the VOC emission limits in section 3 of this rule.”.

326 IAC 8-13-4(d)(4)(F) Following “Emission” **delete** “rate” and **insert** in its place “rates”.

326 IAC 8-13-4(d)(4)(G) Add a new clause (G) as follows:

“(G) Sinter burden oil and grease content value in pounds equivalent to 0.01 pounds of VOC/ton sinter produced that will be used to determine compliance with section 6 of this rule.”

326 IAC 8-13-4(f) Following “An owner or operator may satisfy the requirements of” **delete** “subsection (c)” and **insert** in its place “subsection (d)”.

Following “if the owner or operator met the reporting requirements of subsection (b)” **insert** “,” and **delete** “and”.

Following “the prior notification and submission schedules of 326 IAC 3-6-2” **insert** “,”.

Following “the demonstration otherwise satisfies the requirements of” **delete** “subsection (c)” and **insert** in its place “subsection (d)”.

326 IAC 8-13-4(g) Following “who elects to change the control measure” **delete** “conditions”.

326 IAC 8-13-4(g)(2) Following “Perform a compliance test within sixty (60) days of implementing the change” **delete** “as follows” and **insert** in its place “according to procedures in section 8 of this rule or according to the procedures that follow”.

326 IAC 8-13-4(h) Following “An exceedance of the applicable operating parameter value constitutes prima facie evidence of a violation of the applicable mass emission limit.” **add** “Evidence, including stack test data, may be presented to the department to refute the allegation of the violation of the applicable mass emission limit. “.

326 IAC 8-13-4(i) **Add** a new subsection (i) as follows:

“(i) An owner or operator who elects to change compliance demonstration procedures, for example, from sinter burden oil and grease content monitoring to a CEMS, shall notify the department at least thirty (30) days prior to making the change.”.

326 IAC 8-13-5 Test procedures

326 IAC 8-13-5(a)(1) Following “An initial test as required in” **delete** “section 4(c)” and **insert** in its place “section 4(d) or section 8”.

326 IAC 8-13-5(b) Following “Compliance with the emission” **delete** “limit” and **insert** in its place “limits”.

326 IAC 8-13-5(d)(2) Following “Collect a sinter burden grab sample for analysis” **insert** “at least”.

326 IAC 8-13-5(d)(10) In Equation 4, following “Operating parameter oil content (pounds) = “ **insert** “(“.

Following “(percent (%) by weight from” **delete** “Equation 1” and **insert** in its place “Equation 3) x 1/100)”.

326 IAC 8-13-15(d)(11) **Add** a new subdivision (11) as follows:

“(11) If the operating parameter in Equation 4 corresponds to a VOC emission rate that is less than the VOC emission limits in section 3 of this rule, calculate the operating parameter to represent

the VOC emission limits and explain the basis, as provided in section 4(d)(4)(E) of this rule. “

In the asterisked paragraph at the end of section 5 following “under Contract Number 68-02-1505, June 1975” **delete**, 40 CFR 60, Appendix A;”.

Following “Test Methods for Evaluating Solid Wastes,” **delete** “SW-8946” and **insert** in its place “SW-846”.

Following “Indianapolis, Indiana” **delete** “46204-6015” and **insert** in its place “46204”.

326 IAC 8-13-6 Control measure operation, maintenance, and monitoring

326 IAC 8-13-6(a) Following “Owners or operators of a sintering process that meet the emission” **delete** “limit” and **insert** in its place “limits in”.
Before “section 3 of this rule” **delete** “requirement of”.

326 IAC 8-13-6(b) Following “Owners or operators of a sintering process that meet the emission” **delete** “limit” and **insert** in its place “limits in”.
Before “section 3 of this rule” **delete** “requirement of”.

326 IAC 8-13-6(c) Following “Owners or operators of a sintering process that meet the emission” **delete** “limit” and **insert** in its place “limits in”.
Before “section 3 of this rule” **insert** “requirement of”.
Following “ after the date that the initial or the subsequent compliance test is completed,” **delete** “for each operating day, monitor the sinter burden oil and grease content.” and **insert** in its place “comply with the following requirements:

(1)”.

Following “ Following procedures in section 5 of this rule,” **insert** “analyze” before “at least one (1) sample”.

Following “at least one (1) sample” **delete** “shall be collected and analyzed”.

In “during each of following operating” **insert** “the” before “following”.

Following “during each of the following operating” **delete** “hours” and **insert** in its place “periods”.

Change subdivision (1) to clause (A).

Change subdivision (2) to clause (B).

Change subdivision (3) to clause (C).

Following clause (C) **delete** the following language: “The average oil and grease content for any operating day shall not exceed the operating parameter determined in section 5(d)(10) of this rule. An owner or operator who proposes an alternative sampling frequency shall submit a demonstration that the alternative sampling frequency yields the equivalent oil content value.”

Insert a new subdivision (2) as follows:

“(2) The owner or operator may composite a number of grab samples taken within each operating period. If sinter is produced for less than a total of sixty (60) minutes in any operating period the owner or operator is not required to sample for oil and grease content.”

Insert a new subdivision (3) as follows:

“(3) Compliance with the oil and grease content requirements shall be determined in one (1) of the following ways:

(A) If the owner or operator takes one (1) sample per operating period, the sample may be a composite of multiple samples taken with the operating period. The three (3) values shall be averaged over the day.

(i) The daily average value may exceed the operating parameter by an amount not to exceed the operating parameter by an oil equivalent to one-hundredth pound (0.01 lb) of VOC per ton of sinter produced per month.

(ii) The daily average of the samples taken the day after the day in which the excursion occurred must be in compliance with the operating parameter.

(iii) An excursion greater than the specified percentage in excess of the operating parameter shall be considered a violation of the rule.

(iv) More than five (5) excursions in a single month shall be considered a violation of the rule.

(B) If the owner or operator analyzes four (4) or more samples per operating period and determines the daily average oil and grease content values, then:

(i) The daily average oil and grease content shall not exceed the operating parameter determined in section 5(d)(10) or section 5(d)(11) of this rule.

(ii) An exceedance of the operating parameter is a violation of the rule.

(iii) No excursions are allowed since the greater number of samples should decrease the natural sampling variation.”

326 IAC 8-13-6(d) Following “Owners or operators of a sintering process that meet the emission” **delete** “limit” and **insert** in its place “limits in”. Before “section 3 of this rule” **delete** “ requirement of”. Following “by means other than those specified in subsection (b) or (c) **delete** “,”. In the phrase “shall, in the notifications required by section 4 of this rule,” **insert** “,” after “shall” and **insert** “,” after “rule”.

326 IAC 8-13-7 Record keeping and reporting

326 IAC 8-13-7(a) Following “Owners or operators of a sintering process that meet the emission” **delete** “limit” and **insert** in its place “limits in”. Before “section 3 of this rule” **delete** “requirement of”.

326 IAC 8-13-7(b) Following “Owners or operators of a sintering process that meet the emission” **delete** “limit” and **insert** in its place “limits in”.

Before “section 3 of this rule” **delete** “requirement of”.

326 IAC 8-13-7(c)(1)(E) Add a new clause (E) as follows:

“(E) For the period May 1 through September 30, maintain the following records:

- (i) The VOC emitted each day.
- (ii) The cumulative total of VOC emitted..
- (iii) The sinter produced each operating day.”.

326 IAC 8-13-7(c)(2)(B) Insert “The” before “information required”.

326 IAC 8-13-7(c)(2)(C) Insert “The” before “cause of the exceedance”.

326 IAC 8-13-7(c)(D) Insert “The” before “corrective action taken”.

326 IAC 8-13-8 Add a new section 8 as follows:

“326 IAC 8-13-8 Continuous emissions monitoring

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 8. (a) Owners or operators who elect to demonstrate compliance with the emission limits in section 3 of this rule by continuously monitoring VOC emissions shall do the following:

(1) Before January 1, 1999, install and certify a continuous emissions monitoring (CEM) system to monitor for VOC emission in pounds/hour according to procedures in 326 IAC 3-5.

(2) After January 1, 1999, comply with the continuous emissions monitor maintenance, operating procedures, quality assurance procedures and performance specifications in 326 IAC 3-5.

(3) After January 1, 1999, comply with the record keeping and reporting requirements in 326 IAC 3-5. In addition, the owner or operator shall comply with the following record keeping and reporting requirements:

(A) For the period May 1 through September 30, maintain the following records:

- (i) The VOC emitted each day.
- (ii) The cumulative total of VOC emitted.
- (iii) The sinter produced each operating day.

(B) Within 30 days of the exceedance of an applicable emission limit in section 3 of this rule, submit a report containing the following:

- (i) The name and location of the source.
- (ii) The nature of the exceedance.
- (iii) The date of the occurrence.
- (iv) The cause of the exceedance, such as, but not limited to, production or characteristics of sinter burden.
- (v) The corrective action taken according to plan in 4(b)(5).

(4) Submit the continuous emissions monitor certification reports according to the procedures and schedule in 326 IAC 3-5.

(5) Within 60 days of the compliance dates in section 3 of this rule, submit a report containing the following:

- (A) A document certifying that the owner or operator was in compliance with the emission limits in section 3 of this rule.
- (B) The appropriate CEM data.
- (C) The applicable sinter production data, sinter burden composition, and oil and grease values measured according to procedures in section 5(d) or section 5(e) of this rule.

(b) The following provisions of this rule do not apply to owners or operators who elect to demonstrate compliance with the emission limits in section 3 of this rule by continuously monitoring VOC emissions according to the following sections in 326 IAC 3-5:

- (1) Section 4(a)(2) and (3).
- (2) Section 4 (b)(1)(C)(I), (ii), (iii).
- (3) Section 4(d).
- (4) Section 4(e).
- (5) Section 4(f).
- (6) Section 4(g)(2) and (3).
- (7) Section 4(h).
- (8) Section 6(a), (b), (c), (d).
- (9) Section 7(a), (b), (c).

(Air Pollution Control Board; 326 IAC 8-13-8)”